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## Document Number 6

Entry 6 of 6

File: USPT

Oct 14, 1997

DOCUMENT-IDENTIFIER: US 5677144 A

TITLE: Recombinant DNA encoding CCK 2, a receptor tyrosine kinase

## DEPR:

Several tyrosine residues in the kinase and JM domains of MCK-10-2 are flanked by consensus sequences that suggest a role as autophosphorylation and substrate attachment sites. The sequences flanking Tyr-844 in MCK-10 (YELM) (SEQ ID NO:34) in the COOH-terminal region of the kinase core domain contain the YXXM (SEQ ID NO:35) binding motif for association of the p85 subunit of phosphatidylinositol 3'-kinase (PI3-kinase). Another potential substrate binding site is found 12 amino acids upstream at position Tyr 832 in MCK-10-2 (YLSR) (SEQ ID NO:36). Moreover, analogous to TrK, Tyr-506 (YSGD) (SEQ ID NO:37) in the JM region of MCK-10-2 could serve as a receptor binding site for SHC, an oncogenic SH2 domain-containing molecule (Obermeier et al. 1993, J. Biol. Chem. 268: 22963-22966), and sequences flanking Tyr 510 (YMEP) (SEQ ID NO:38) in MCK-10 qualify as the binding site for the GTPase-activating protein (GAP) because of similarity to the GAP binding site in the platelet-derived growth factor receptor (PDGF-R).

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